

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

James E. GALEN

Appln. No.: 09/993,292

Confirmation No.: 5386

Filed: November 23, 2001

For: USE OF ClyA HEMOLYSIN FOR EXCRETION OF PROTEINS



Docket No: A8461

Group Art Unit: 1645

Examiner: Duffy, P.

SUBMISSION OF EXECUTED DECLARATION UNDER 37 C.F.R. §1.132

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Submitted herewith is a copy of an executed Declaration Under 37 C.F.R. §1.132 signed by James E. GALEN.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Drew Hissong".

Drew Hissong
Registration No. 44,765

SUGHRUE MION, PLLC
Telephone: (202) 293-7060
Facsimile: (202) 293-7860

WASHINGTON OFFICE
23373
CUSTOMER NUMBER

Date: July 11, 2005

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PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Docket No: A8461

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For: USE OF ClyA HEMOLYSIN FOR EXCRETION OF PROTEINS

SECOND DECLARATION OF JAMES E. GALEN UNDER 37 C.F.R. §1.132

Commissioner for Patents

P.O. Box 1450

Alexandria VA 22313-1450

Sir:

I, James R. Galen, hereby declare and state:

THAT I am a citizen of the United States of America;

THAT I have received the degree of Ph.D. in 1991 from the University of Maryland

Baltimore;

THAT I have been employed by the Center for Vaccine Development since 1993, where I hold a position as Associate Professor, with responsibility for engineering expression systems for attenuated *Salmonella enterica* serovar Typhi human live vector vaccine strains.

Comments regarding inclusion of sequences in application

Paragraph 0028 of U.S. application number 09/993,292 refers to four polynucleotide sequences encoding bacterial proteins by name and GENBANK accession number. Namely:

The polynucleotide encoding *Shigella flexneri* truncated hlyE - Accession No. AF200955

The polynucleotide encoding *Escherichia coli* hlyE - Accession No. AJ001829

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The polynucleotide encoding *Salmonella paratyphi clyA* - Accession No. AJ313033

The polynucleotide encoding *S. Typhi clyA* - Accession No. AJ313034

Each of the four polynucleotides was submitted to GENBANK and assigned an accession number prior to the date on which the present application was filed. None of the polynucleotide sequences is known to have been changed in the period of time between the filing of the present application (November 23, 2001), and the date of execution of the instant Declaration.

Furthermore, based on reasonable investigation, there is no evidence that any of the sequences have been changed during this period of time. Indeed, as shown on the attached GENBANK printouts for each of the four sequences (Appendix I-IV), there were no changes to the sequences under the relevant accession numbers since the filing date (November 23, 2001) of the pending application. With regard to AF200955, the last date of amendment was February 2, 2000 (Appendix D). With regard to AJ001829, the last date of amendment was April 2, 1998 (Appendix II).

With regard to AJ313033, the last date of amendment was April 15, 2005 (Appendix III). However, as shown on the enclosed summary of amendments made to the listing (Appendix V), the only changes that have been made are those to the classification of the organism, the references citing the accession number, and the addition of a SwissPro reference number (please see the boxed regions on Appendix V). No changes have been made to the sequence.

With regard to AJ313034, the last date of amendment was April 15, 2005 (Appendix IV). However, as shown on the enclosed summary of amendments made to the listing (Appendix VI), the only changes that have been made are those to the classification of the organism, the

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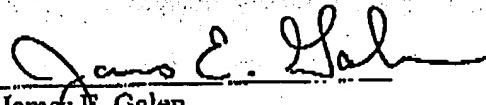
references citing the accession number, and the addition of a SwissPro reference number (please see the boxed regions on Appendix VI). No changes have been made to the sequence.

As such, I aver that the reference material referred to herein contains no new matter and consists of the same material incorporated by reference into the above-identified U.S. patent application at the time the application was filed.

* * *

I declare further that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date: 7/11/05


James E. Galen

EYNEKKASAPH"

ORIGIN

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ORIGIN

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APPENDIX III

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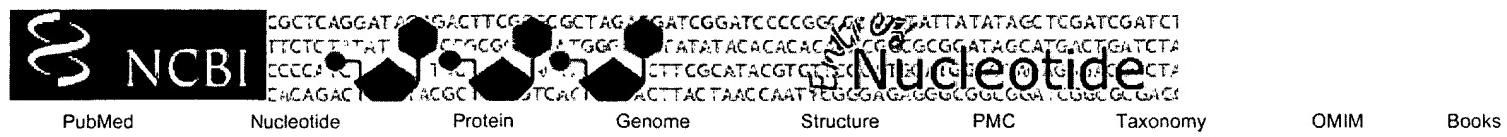
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APPENDIX IV



Search **Nucleotide** for

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Range: from to Reverse complemented strand Features: SNP CDD MGC
 HPRD STS

1: AJ313034. Reports *Salmonella typhi* ...[gi:14018374]

Links

LOCUS SEN313034 1102 bp DNA linear BCT 15-APR-2005

DEFINITION *Salmonella typhi* clyA gene for cytolysin A.

ACCESSION AJ313034

VERSION AJ313034.1 GI:14018374

KEYWORDS clyA gene; cytolysin A.

SOURCE *Salmonella enterica* subsp. *enterica* serovar Typhi

ORGANISM *Salmonella enterica* subsp. *enterica* serovar Typhi
Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
Enterobacteriaceae; *Salmonella*.

REFERENCE 1

AUTHORS Oscarsson, J.

JOURNAL Thesis (1999) Department of Microbiology, Umea University, Umea,
Sweden

REFERENCE 2

AUTHORS Oscarsson, J., Westermark, M., Lofdahl, S. and Uhlin, B.

TITLE Expression of a pore-forming cytotoxin by *Salmonella* ser. Typhi and
Salmonella ser. Paratyphi A

JOURNAL Unpublished

REFERENCE 3 (bases 1 to 1102)

AUTHORS Oscarsson, J.

TITLE Direct Submission

JOURNAL Submitted (07-MAY-2001) Oscarsson J., Molecular Biology, Umea
University, Umea, 90187, SWEDEN

FEATURES Location/Qualifiers

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CDS 75..986
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ORIGIN

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[SKIP: unchanged/identical feature/sequence/publication information is not displayed]

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Sequence Revision History

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14140227	1		May 17 2001 1:25 AM

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LOCUS	SEN313033	1102 bp	DNA	linear	BCT 15-MAY-2001
DEFINITION	Salmonella paratyphi clyA gene for cytolsin A.				
ACCESSION	AJ313033				
VERSION	AJ313033 .1	GI:14140227			
KEYWORDS	clyA gene; cytolsin A.				
SOURCE	Salmonella paratyphi Paratyphi A)				
SOURCE	Salmonella paratyphi				
ORGANISM	Salmonella paratyphi				

REFERENCE	1	Bacteria; Proteobacteria; gamma subdivision; Enterobacteriaceae; Salmonella.
REFERENCE	1	(bases 1 to 1102)
AUTHORS	Oscarsson, J.	
JOURNAL	Thesis (1999)	Department of Microbiology, Umea University, Umea, Sweden
REFERENCE	2	
REFERENCE	2 (bases 1 to 1102)	

AUTHORS	Oscarsson, J., Westermark, M., Lofdahl, S. and Uhlin, B.
TITLE	Expression of a pore-forming cytotoxin by <i>Salmonella</i> ser. Typhi and <i>Salmonella</i> ser. Paratyphi A
JOURNAL	Unpublished
REFERENCE	3 (bases 1 to 1102)
AUTHORS	Oscarsson, J.
TITLE	Direct Submission
JOURNAL	Submitted (07-MAY-2001) Oscarsson J., Molecular Biology, Umea University, Umea, 90187, SWEDEN
FEATURES	Location/Qualifiers

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ORIGIN

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